



Figure 1: Alignment of *Y. lipolytica* Erg20p (YIERG20p. Accession number: XP_503599.1) and *S. cerevisiae* Erg20p (ScERG20p. Accession number: CAA89462.1) amino sequences. The black box marks the phenylalanine residue in position 96 of ScERG20p and 88 of YIERG20p that was substituted for cysteine in the mutated version *Y. lipolytica* Erg20p^{F88C}.

Supplementary table 1. Strains used in this study.

Strain ID	Genotypes	Parent strain	gRNA-vector	integration vector/biobrick	Reference
ST3683	<i>mus51Δ, nugm-Htg2, ndh2i, lys11-, leu2-, ura3-, MatB</i>				(Angerer et al., 2014) <i>Y. lipolytica</i> GB20 was a kind gift from Volker Zickermann.
ST4842	MATa				<i>Y. lipolytica</i> W29 (MATa, ATCC©20460TM) strain Y-63746 from the ARS culture collection
ST6512	MATa ku70Δ::PrTEF1->Cas9-TTef12::PrGPD->DsdA-TLip2	ST4842		pCfB6364	(Marella et al., 2019)
β-farnesene test strain					
ST8979	MATa ku70Δ::PrTEF1->Cas9-TTef12::PrGPD->DsdA-TLip2 IntE_1-PrTefInt->AaBFS	ST6512	pCfB6633	pCfB8829	This study
ST8998	MATa ku70Δ::PrTEF1->Cas9-TTef12::PrGPD->DsdA-TLip2	ST8979	pCfB8855	pCfB8822	This study

	IntE_1-PrTefInt->AaBFS IntC_2-HMG1<-PrGPD-PrTefInt->ERG12				
ST9006	MATa ku70Δ::PrTEF1->Cas9-TTef12::PrGPD->DsdA-TLip2 IntE_1-PrTefInt->AaBFS IntC_2-HMG1<-PrGPD-PrTefInt->ERG12 IntD_1-IDII<-PrGPD-PrTefInt->ERG20	ST8998	pCfB6631	pCfB8878	This study
ST9026	MATa ku70Δ::PrTEF1->Cas9-TTef12::PrGPD->DsdA-TLip2 IntE_1-PrTefInt->AaBFS IntC_2-HMG1<-PrGPD-PrTefInt->ERG12 IntD_1-IDII<-PrGPD-PrTefInt->ERG20 IntC_3-SeACS<-PrGPD-PrTefInt->YIACL1	ST9006	pCfB8856	pCfB8823	This study
ST9147	MATa ku70Δ::PrTEF1->Cas9-TTef12::PrGPD->DsdA-TLip2 IntE_1-PrTefInt->AaBFS IntC_2-HMG1<-PrGPD-PrTefInt->ERG12 IntD_1-IDII<-PrGPD-PrTefInt->ERG20 IntC_3-SeACS<-PrGPD-PrTefInt->YIACL1 pERG11::pSQS1	ST9026	pCfB8978	BB4010	This study
Sesquiterpene platform strain					
ST8980	MATa ku70Δ::PrTEF1->Cas9-TTef12::PrGPD->DsdA-TLip2 IntC_2-HMG1<-PrGPD-PrTefInt->ERG12	ST6512	pCfB6627	pCfB8822	This study
ST9027	MATa ku70Δ::PrTEF1->Cas9-TTef12::PrGPD->DsdA-TLip2 IntC_2-HMG1<-PrGPD-PrTefInt->ERG12 IntC_3-SeACS<-PrGPD-PrTefInt->YIACL1	ST8980	pCfB8856	pCfB8823	This study
ST9100	MATa ku70Δ::PrTEF1->Cas9-TTef12::PrGPD->DsdA-TLip2 IntC_2-HMG1<-PrGPD-PrTefInt->ERG12 IntC_3-SeACS<-PrGPD-PrTefInt->YIACL1 IntD_1-IDII<-PrGPD-PrTefInt->ERG20	ST9027	pCfB6631	pCfB8878	This study
ST9149	MATa ku70Δ::PrTEF1->Cas9-TTef12::PrGPD->DsdA-TLip2 IntC_2-HMG1<-PrGPD-PrTefInt->ERG12 IntC_3-SeACS<-PrGPD-PrTefInt->YIACL1 IntD_1-IDII<-PrGPD-PrTefInt->ERG20 pERG11::pSQS1	ST9100	pCfB8979	BB4010	This study
ST9204	MATa ku70Δ::PrTEF1->Cas9-TTef12::PrGPD->DsdA-TLip2 IntC_2-HMG1<-PrGPD-PrTefInt->ERG12 IntC_3-SeACS<-PrGPD-PrTefInt->YIACL1 IntD_1-IDII<-PrGPD-PrTefInt->ERG20 pERG11::pSQS1 IntE_1-PrTefInt->CnVS	ST9149	pCfB6633	pCfB8830	This study
ST9396	MATa ku70Δ::PrTEF1->Cas9-TTef12::PrGPD->DsdA-TLip2 IntE_1-PrTefInt->CnVS	ST6512	pCfB6633	pCfB8830	This study
Monoterpene platform strain					
ST9148	MATa ku70Δ::PrTEF1->Cas9-TTef12::PrGPD->DsdA-TLip2 IntC_2-HMG1<-PrGPD-PrTefInt-	ST9027	pCfB8978	BB4010	This study

	>ERG12 IntC_3-SeACS<-PrGPD-PrTefInt->YIACL1 pERG11::pSQS1				
ST9202	MATa ku70Δ::PrTEF1->Cas9-TTef12::PrGPD->DsdA-TLip2 IntC_2-HMG1<-PrGPD-PrTefInt->ERG12 IntC_3-SeACS<-PrGPD-PrTefInt->YIACL1 pERG11::pSQS1 IntD_1-IDI1<-PrGPD-PrTefInt->ERG20(F88W-N119W)	ST9148	pCfB8857	pCfB8824	This study
ST9249	MATa ku70Δ::PrTEF1->Cas9-TTef12::PrGPD->DsdA-TLip2 IntC_2-HMG1<-PrGPD-PrTefInt->ERG12 IntC_3-SeACS<-PrGPD-PrTefInt->YIACL1 pERG11::pSQS1 IntD_1-IDI1<-PrGPD-PrTefInt->ERG20(F88W-N119W) IntE_1-PrTefInt->CILS	ST9202	pCfB6633	pCfB8827	This study
ST9250	MATa ku70Δ::PrTEF1->Cas9-TTef12::PrGPD->DsdA-TLip2 IntC_2-HMG1<-PrGPD-PrTefInt->ERG12 IntC_3-SeACS<-PrGPD-PrTefInt->YIACL1 pERG11::pSQS1 IntD_1-IDI1<-PrGPD-PrTefInt->ERG20(F88W-N119W) IntE_1-PrTefInt->PFLS	ST9202	pCfB6633	pCfB8828	This study
ST9394	MATa ku70Δ::PrTEF1->Cas9-TTef12::PrGPD->DsdA-TLip2 IntE_1-PrTefInt->CILS	ST6512	pCfB6633	pCfB8827	This study
ST9395	MATa ku70Δ::PrTEF1->Cas9-TTef12::PrGPD->DsdA-TLip2 IntE_1-PrTefInt->PFLS	ST6512	pCfB6633	pCfB8828	This study
Triterpene platform strain					
ST9009	MATa ku70Δ::PrTEF1->Cas9-TTef12::PrGPD->DsdA-TLip2 IntC_2-HMG1<-PrGPD-PrTefInt->ERG12 pERG7_100bp	ST8980	pCfB8880	BB3895	This study
ST9010	MATa ku70Δ::PrTEF1->Cas9-TTef12::PrGPD->DsdA-TLip2 IntC_2-HMG1<-PrGPD-PrTefInt->ERG12 pERG7_50bp	ST8980	pCfB8880	BB3952	This study
ST9029	MATa ku70Δ::PrTEF1->Cas9-TTef12::PrGPD->DsdA-TLip2 IntC_2-HMG1<-PrGPD-PrTefInt->ERG12 pERG7_50bp IntC_3-SeACS<-PrGPD-PrTefInt->YIACL1	ST9010	pCfB6630	pCfB8823	This study
ST9044	MATa ku70Δ::PrTEF1->Cas9-TTef12::PrGPD->DsdA-TLip2 IntC_2-HMG1<-PrGPD-PrTefInt->ERG12 pERG7_50bp IntC_3-SeACS<-PrGPD-PrTefInt->YIACL1 IntD_1-IDI1<-PrGPD-PrTefInt->ERG20	ST9029	pCfB8857	pCfB8878	This study
ST9105	MATa ku70Δ::PrTEF1->Cas9-TTef12::PrGPD->DsdA-TLip2 IntC_2-HMG1<-PrGPD-PrTefInt->ERG12 pERG7_50bp IntC_3-SeACS<-PrGPD-PrTefInt->YIACL1 IntD_1-IDI1<-PrGPD-PrTefInt->ERG20 IntE_1-PrTefInt->SQS1	ST9044	pCfB6633	pCfB8832	This study
ST9106	MATa ku70Δ::PrTEF1->Cas9-TTef12::PrGPD->DsdA-TLip2	ST9044	pCfB6633	pCfB8831	This study

	IntC_2-HMG1<-PrGPD-PrTefInt->ERG12 pERG7_50bp IntC_3-SeACS<-PrGPD-PrTefInt->YIACL1 IntD_1-IDII<-PrGPD-PrTefInt->ERG20 IntE_1-SQE<-PrGPD-PrTefInt->SQS1				
ST9257	MATa ku70Δ::PrTEF1->Cas9-TTef12::PrGPD->DsdA-TLip2 IntC_2-HMG1<-PrGPD-PrTefInt->ERG12 pERG7_50bp IntC_3-SeACS<-PrGPD-PrTefInt->YIACL1 IntD_1-IDII<-PrGPD-PrTefInt->ERG20 IntE_1-PrTefInt->SQS1 IntE_3-PrTefInt->DGA1	ST9105	pCfB8860	pCfB8837	This study
Diterpene and carotenoid platform strains					
ST9102	MATa ku70Δ::PrTEF1->Cas9-TTef12::PrGPD->DsdA-TLip2 IntC_2-HMG1<-PrGPD-PrTefInt->ERG12 IntC_3-SeACS<-PrGPD-PrTefInt->YIACL1 IntD_1-IDII<-PrGPD-PrTefInt->GGS1	ST9027	pCfB6631	pCfB8826	This study
ST9148	MATa ku70Δ::PrTEF1->Cas9-TTef12::PrGPD->DsdA-TLip2 IntC_2-HMG1<-PrGPD-PrTefInt->ERG12 IntC_3-SeACS<-PrGPD-PrTefInt->YIACL1 pERG11::pSQS1	ST9027	pCfB8978	BB4010	This study
ST9150	MATa ku70Δ::PrTEF1->Cas9-TTef12::PrGPD->DsdA-TLip2 IntC_2-HMG1<-PrGPD-PrTefInt->ERG12 IntC_3-SeACS<-PrGPD-PrTefInt->YIACL1 IntD_1-IDII<-PrGPD-PrTefInt->GGS1 pERG11::pSQS1	ST9102	pCfB8979	BB4010	This study
ST9203	MATa ku70Δ::PrTEF1->Cas9-TTef12::PrGPD->DsdA-TLip2 IntC_2-HMG1<-PrGPD-PrTefInt->ERG12 IntC_3-SeACS<-PrGPD-PrTefInt->YIACL1 pERG11::pSQS1 IntD_1-IDII<-PrGPD-PrTefInt->ERG20(F96C)	ST9148	pCfB8857	pCfB8825	This study
ST9251	MATa ku70Δ::PrTEF1->Cas9-TTef12::PrGPD->DsdA-TLip2 IntC_2-HMG1<-PrGPD-PrTefInt->ERG12 IntC_3-SeACS<-PrGPD-PrTefInt->YIACL1 pERG11::pSQS1 IntD_1-IDII<-PrGPD-PrTefInt->ERG20(F96C) IntE_1-XdCtrl<-PrGPD-PrTefInt->XdCtrYB	ST9203	pCfB6633	pCfB8833	This study
ST9253	MATa ku70Δ::PrTEF1->Cas9-TTef12::PrGPD->DsdA-TLip2 IntC_2-HMG1<-PrGPD-PrTefInt->ERG12 IntC_3-SeACS<-PrGPD-PrTefInt->YIACL1 IntD_1-IDII<-PrGPD-PrTefInt->GGS1 pERG11::pSQS1 IntE_1-XdCtrl<-PrGPD-PrTefInt->XdCtrYB	ST9150	pCfB6633	pCfB8833	This study

Supplementary table 2. Vectors used in this study.

Vector Name	Parent vector	Biobricks	References
pBP8009 (pIntF_3-TPex20-TLip2)			(Holkenbrink et al., 2018)

pCfB3405 (pORI1001-Nat-CEN1-USER)			(Holkenbrink et al. 2018)
pCfB5119 (pIntB-HphMx-YIHMG1<-PrGPD-PrFBA1->YIGGS1)			(Kildegaard et al., 2017)
pCfB5141 (pIntE-1-NatMx-XdCrtI<-PrGPD-PrFBA1->XdCrtYB)			(Kildegaard et al., 2017)
pCfB6364 (ku70Δ::SpCas9-EcDsdAMX4)			(Marella et al., 2019)
pCfB6371 (pIntC_3-TPex20-TLip2)			(Holkenbrink et al. 2018)
pCfB6601 (pIntE-4-Hph-PrExp->PflS)			Unpublished
pCfB6602 (pIntE-4-Hph-PrExp->CILS)			Unpublished
pCfB6605 (pIntE-4-Hph-PrExp->YISQS1)			Unpublished
pCfB6606 (pIntE-4-Hph-CnVS<-PrEXP)			Unpublished
pCfB6620 (pORI1001-Nat-CEN1-USER-IDI1<-PrEXP-PrGPD->ERG20)			Unpublished
pCfB6677 (pIntE_1-TPex20-TLip2)			(Holkenbrink et al. 2018)
pCfB6679 (pIntE_4-TPex20-TLip2)			(Holkenbrink et al. 2018)
pCfB6681 (pIntE_3-TPex20-TLip2)			(Holkenbrink et al. 2018)
pCfB6682 (pIntC_2-TPex20-TLip2)			(Holkenbrink et al. 2018)
pCfB6684 (pIntD_1-TPex20-TLip2)			(Holkenbrink et al. 2018)
pCfB6799 (pIntE-4-Hph-BFS_M13<-PrEXP)			Unpublished
pCfB7063 (prDNA-Ura3d1-TPex20+PTEfintron+CrtW+TLip2)			(Kildegaard et al., 2017)
pCFB8843 (pORI1001-Hyg-CEN1-USER)	BB3924, BB3925		This study
Integration vectors			
pCfB8822 (IntC_2-HMG1<-PrGPD-PrTefInt->ERG12)	pCfB6682	BB3865, BB3866, BB3867	This study
pCfB8823 (IntC_3-SeACS<-PrGPD-PrTefInt->YIACL1)	pCfB6371	BB3865, BB3868, BB3869	This study
pCfB8824 (IntD_1-IDI1<-PrGPD-PrTefInt->ERG20(F88W-N119W))	pCfB6684	BB3865, BB3870, BB3874	This study
pCfB8825 (IntD_1-IDI1<-PrGPD-PrTefInt->ERG20(F96C))	pCfB6684	BB3865, BB3870, BB3877	This study
pCfB8826 (IntD_1-IDI1<-PrGPD-PrTefInt->GGS1)	pCfB6684	BB3865, BB3870, BB3878	This study
pCfB8827 (IntE_1-PrTefInt->CILS)	pCfB6677	BB3879, BB3880	This study
pCfB8828 (IntE_1-PrTefInt->PflS)	pCfB6677	BB3879, BB3881	This study
pCfB8829 (IntE_1-PrTefInt->AaBFS)	pCfB6677	BB3879, BB3882	This study
pCfB8830 (IntE_1-PrTefInt->CnVS)	pCfB6677	BB3879, BB3883	This study
pCfB8831 (IntE_1-SQE<-PrGPD-PrTefInt->SQS1)	pCfB6677	BB3865, BB3884, BB3885	This study
pCfB8832 (IntE_1-PrTefInt->SQS1)	pCfB6677	BB3879, BB3885	This study
pCfB8833 (IntE_1-XdCrtI<-PrGPD-PrTefInt->XdCrtYB)	pCfB6677	BB3865, BB3886, BB3887	This study
pCfB8837 (IntE_3-PrTefInt->DGA1)	pCfB6681	BB3879, BB3898	This study
pCfB8878 (IntD_1-IDI1<-PrGPD-PrTefInt->ERG20)	pCfB6684	BB3865, BB3870, BB3871	This study
gRNA-vectors			
pCfB6627 (pNat-YLgRNA2_IntC_2)			(Holkenbrink et al. 2018)
pCfB6630 (pNat-YLgRNA3_IntC_3)			(Holkenbrink et al. 2018)
pCfB6631 (pNat-YLgRNA2_IntD_1)			(Holkenbrink et al. 2018)
pCfB6633 (pNat-YLgRNA2_IntE_1)			(Holkenbrink et al. 2018)

pCfB6637 (pNat-YLgRNA3_IntE_3)			(Holkenbrink et al. 2018)
pCfB6638 (pNat-YLgRNA2_IntE_4):			(Holkenbrink et al. 2018)
pCfB8855 (pHphM-YLgRNA2_IntC_2)	pCFB8843	BB3926	This study
pCfB8856 (pHphM-YLgRNA2_IntC_3)	pCFB8843	BB3927	This study
pCfB8857 (pHphM-YLgRNA2_IntD_1)	pCFB8843	BB3928	This study
pCfB8858 (pHphM-YLgRNA2_IntE_1)	pCFB8843	BB3929	This study
pCfB8880 (pERG7_gRNA_KO_Hyg)	pCFB8843	BB1635, BB1636, PR-24059, PR-24060	This study
pCfB8978 (pSQS1_replacement_gRNA_Nat)	pCfB3405	BB1635, BB1636, PR-24587, PR-24588	This study
pCfB8979 (pSQS1_replacement_gRNA_Hyg)	pCFB8843	BB1635, BB1636, PR-24587, PR-24588	This study
Synthetic genes			
pCfB8820 (SeACS)			This study

Supplementary table 3. Biobricks used in this study.

Biobrick Name	Template	Forward primer	Reverse primer	Reference
BB1635				(Holkenbrink et al. 2018)
BB1636				(Holkenbrink et al. 2018)
BB3863 (Tefint(PrGDPfusion)->)	pCfB7063	24013	18214	This study
BB3864 (<-PrGDP)	pCfB5119	15528	15529	This study
BB3865 (<-PrGDP_Tefint->)	BB3863, BB3864	15528	18214	This study
BB3866 (<-HMG1)	pCfB5119	23753	23752	This study
BB3867 (ERG12->)	ST3683 gDNA	24014	24015	This study
BB3868 (<-YIOpSeACS)	pCfB8820	24016	24017	This study
BB3869 (YIACL1->)	ST3683 gDNA	24018	24019	This study
BB3870 (<-IDI1)	ST3683 gDNA	24020	24021	This study
BB3871 (ERG20->)	pCfB6620	24022	24023	This study
BB3871 (ERG20->)	pCfB6620	24022	24023	This study
BB3872 (ERG20(F88W-N119W)_up)	pCfB6620	24022	24026	This study
BB3873 (ERG20(F88W-N119W)_down)	pCfB6620	24027	24023	This study
BB3874 (ERG20(F88W-N119W)->)	BB3872, BB3873	24022	24023	This study
BB3875 (ERG20(F88C)_up)	pCfB6620	24022	24024	This study
BB3876 (ERG20(F88C)_down)	pCfB6620	24025	24023	This study
BB3877 (ERG20(F88C)->)	BB3875, BB3876	24022	24023	This study
BB3878 (GGS1->)	pCfB5119	24028	24029	This study
BB3879 (Tefint->)	pCfB7063	23847	18214	This study
BB3880 (CILS->)	pCfB6602	24030	24031	This study
BB3881 (PFLS->)	pCfB6601	24032	24033	This study
BB3882 (AaBFS->)	pCfB6799	24061	24062	This study
BB3883 (CnVS->)	pCfB6606	24034	24035	This study
BB3884 (<-SQE)	ST3683 gDNA	24038	24039	This study
BB3885 (SQS1->)	pCfB6605	24036	24037	This study

BB3886 (<-XdCtrl)	pCfB5141	24044	24045	This study
BB3887 (XdCtrYB->)	pCfB5141	24046	24047	This study
BB3890 (pSQS_50bp_up)	ST3683 gDNA	24048	24049	This study
BB3891 (pSQS_50bp_down)	ST3683 gDNA	17760	24050	This study
BB3893 (pERG7_100bp_up)	ST3683 gDNA	24055	24056	This study
BB3894 (pERG7_100bp_down)	ST3683 gDNA	24057	24058	This study
BB3895 (pERG7_100bp_repair)	BB3893, BB3894	24055	24058	This study
BB3898 (DGA1_YALI0E32769g->)	ST3683 gDNA	24365	24070	This study
BB3924 (Episomal vector backbone w/o HphMX)	pCFB3405	23934	10593	This study
BB3925 (HphMX-TTef1 insert)	pCfB6605	23935	23936	This study
BB3926 (gRNA-cassette for IntC_2)	pCFB6627	10607	10604	This study
BB3927 (gRNA-cassette for IntC_3)	pCfB6630	10607	10604	This study
BB3928 (gRNA-cassette for IntD_1)	pCfB6631	10607	10604	This study
BB3929 (gRNA-cassette for IntE_1)	pCfB6633	10607	10604	This study
BB3944 (pERG7_50bp_up)	ST3683 gDNA	24055	24366	This study
BB3952 (pERG7_50bp_repair)	BB3944, BB3894	24055	24058	This study
BB4007 (SQS_UP_promoter_replacement)	ST3683 gDNA	24581	24582	This study
BB4008 (pERG11)	ST3683 gDNA	24583	24584	This study
BB4009 (SQS_DOWN_promoter_replacement)	ST3683 gDNA	24585	24586	This study
BB4010 (SQS_UP_pERG11_pSQS_DOWN)	BB4007, BB4008, BB4009	24581	24586	This study

Supplementary table 4. Primers used in this study.

Primer Name	Sequence (5'->3')
PR-10593	AGCAGGCTUGGAGGCGACGTGGCAG
PR-10604	CACGCGAUACCGTACCCACACAAAAAAGCACCACCGACTC
PR-10607	CGTGCGAUAGTGAATCATTGCTAACAGATC
PR-15528	ATGACAGAUTGTTGATGTGTGTTTAATCAAGAATG
PR-15529	AGTACTGAUGACGCAGTAGGATGTCCTGCACGG
PR-17760	AGTGGCCUATTAGCAACACGATCTACC
PR-18214	AGTACTGCAAAAAGUGCTG
PR-18214	AGTACTGCAAAAAGUGCTG
PR-23752	ATCTGTCAUGCCACAATGCTACAAGCAGCTATTGG
PR-23753	CACGCGAUCTATGACCGTATGCAAATATTCC
PR-23847	CGTGCGAUAGAGACCGGGTTGGCGGCGCAT
PR-23934	ACCCATTGCTGUAGATATGTCTTGTGTGTAAGGGGG
PR-23935	ACAGCAATGGGUAAAAAGCCTGAACTCACCGC
PR-23936	AAGCCTGCUGAATTCGGACACGGGCAT
PR-24013	ATCAGTAGCUAGAGACCGGGTTGGCGGCC
PR-24014	ACTTTTTCAGTACUAACCGCAGGACTACATCATTTCGGCGCC
PR-24015	CACGCGAUCTAATGGGTCCAGGGACCG
PR-24016	CGTGCGAUTTAAGAGGGCATAGCAATGGCC

PR-24017	ATCTGTCAUGCCACAATGTCTCAGACCCACAAGCACG
PR-24018	ACTTTTTGCAGTACUAACCGCAGTCAGCGAAATCCATTACGAG
PR-24019	CACGCGAUTTAAACTCCGAGAGGAGTGGAA
PR-24020	CGTGCGAUCTACTTGATCCACCGCCGAA
PR-24021	ATCTGTCAUGCCACAATGACGACGTCTTACAGCGA
PR-24022	ACTTTTTGCAGTACUAACCGCAGTCCAAGGCGAAATTCGAAAAGC
PR-24023	CACGCGAUCTACTTCTGTGCTTGTAATCTT
PR-24024	AGGCAAAACGCCUGCAGCAGCTCAATCAGCCA
PR-24025	AGGCGTTTTGCCUCGTGTCGGACGACATTATGG
PR-24026	AGGGCTGGCCTCGTCGGGUCTTGGACTCATCCATAATGTCGTCCGACACGAGCCA
PR-24027	ACCCGACGAGGCCAGCCCUGCTGGTACCTCAAGCCCAAGGTCGGCATGATTGCCATCTGG
PR-24028	ACTTTTTGCAGTACUAACCGCAGGATTATAACAGCGCGGATTTC
PR-24029	CACGCGAUTCACCTGCGCATCCTCAAAG
PR-24030	ACTTTTTGCAGTACUAACCGCAGTCCTCTTGCATCAACCCCTC
PR-24031	CACGCGAUTTAGCCCTTGGTGCCGGG
PR-24032	ACTTTTTGCAGTACUAACCGCAGCACATGGCTATCCCCATCAAG
PR-24033	CACGCGAUTTACAGCCACTGCTCGAACA
PR-24034	ACTTTTTGCAGTACUAACCGCAGGCCGAGATGTTCAACGGCA
PR-24035	CACGCGAUTTAGGGAATGATGGGCTCGAC
PR-24036	ACTTTTTGCAGTACUAACCGCAGGGAAAACATCGAACTGCTCTT
PR-24037	CACGCGAUCTAATCTCTCAGAGGAAACATCTT
PR-24038	CGTGCGAUCTAAGTCAGCTCGCTCCAAATG
PR-24039	ATCTGTCAUGCCACAATGGTCACCCAACAGTCTGC
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PR-24366	ACTCTGTGTAUAGTATATAGCACCCTCCACC
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PR-24582	ACGTCGTGAAAUATCGACGTGGGGATAATTGAA
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Synthetic genes used in this study.

>SeACS

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